

Stated Meeting, June 16, 1876.

Present, 7 members.

Vice-President, MR. FRALEY, in the Chair.

Letters accepting membership were received from Dr. A. E. Nordenskiöld, dated Philadelphia, June 13, 1876, Dr. Jublin Dannfelt, dated Philadelphia, May 31, 1876, Mr. I. Lothian Bell, dated Philadelphia, June 7, 1876, and Mr. P. Cunliffe Owen, dated 2 Residences, South Kensington Museum, London, May 20, 1876.

A photograph of Dr. I. Lea, of Philadelphia, was received for insertion in the Album.

Receipts for No. 92 Proceedings were received from M. M. Rokitansky & Hyrtl, of Vienna.

A letter of envoy was received from the Royal Bavarian Library, dated March 18, 1876.

Notice of change of residence from St. Petersburg to Jena of M. Böhtlinek was received from Watkins & Co. per Smithsonian Institution.

Donations for the Library were announced from the Academies at Berlin, Munich, Boston, Philadelphia, and San Francisco; the Societies at Leipzig, Ulm, Salem and Boston; the Observatory at Munich; the Library at Munich; the Editors of the *Revue Politique*, and *Nature*; the London Geographical, Astronomical, and Zoological Societies; Mr. Edmund Quincy, Prof. O. C. Marsh, Dr. Isaac Lea; *Silliman's Journal*, *American Chemist*, *Journal of Pharmacy*, *Penn Monthly*, and the Massachusetts State Board of Health.

The Committee on Dr. Valentino's Memoir reported progress, and was continued.

The death of Dr. Geo. Allen was announced by the Secretary, and on motion Prof. Thompson, of the University of Pennsylvania, was appointed to prepare an obituary notice of the deceased.

Mr. Price communicated the following circular, read and

unanimously adopted at a meeting of the Commissioners of Fairmount Park, held June 5, 1876:

TREES FOR THE FAIRMOUNT PARK.

This Park is in the earliest stage of its formation. A principal feature of its beauty must consist of trees, planted in manner to form pleasing landscapes, and in trees planted singly, in groups, and groves. The Commissioners desire also to add a botanical interest to the Park, by having in it every tree that will stand our climate. To promote this object and duly to honor the name of Michaux, father and son, the American Philosophical Society have devoted half the income of the legacy left by the son to the Society, of about three hundred dollars (\$300) per annum. This has been applied to the planting of the Michaux Grove of oaks, and to importing and planting in our nurseries many varieties of oaks, &c. The announcement is now made, during the holding of the Centennial International Exhibition as an auspicious occasion to invite contributions of trees, acorns and seeds, from all parts of the world, and from all persons who love the beautiful in landscape and to promote botanical science.

Communications may be made to Eli K. Price, No. 709 Walnut Street, Philadelphia, Chairman of Committee on Trees and Nurseries in the Park Commission, and Chairman of the Committee on Michaux Fund in the American Philosophical Society.

Mr. Price exhibited specimen twigs, bearing leaves, broken from every variety of oak imported and growing in the Michaux Grove. Respecting this grove he desired to have this minute placed on the Journal of the Society.

The Chairman of the Committee on the Michaux Grove reports, that he has visited to day the Fairmount Park Nursery, and found the grounds well taken care of, and the large stock of trees in a flourishing condition. Of the acorns planted before last winter nearly all have grown except those of the "Bartram Oak;" and of the fifty or sixty of these planted, not one has grown. So far the proof is in favor of that oak being a hybrid.

Mr. Davenport being invited to speak of the Eucalyptus trees of Australia, and the probability of growing certain species of Eucalyptus in our latitude, remarked that his botanical information was drawn chiefly from the pretty thorough reconnoissance of that continent by Dr. Schomburgk, Director of the Botanical Gardens at Adelaide, and Baron

von Müller, Director of the Gardens at Melbourne, who recognized about one hundred and fifty species or varieties of Eucalyptus, many of large size, some growing grandly on arid plains, others on Australian "Alps" and "Pyranees" at various elevations; the highest mountain summits being not above 7000 feet over sea level. Some of these mountain kinds will probably grow in Philadelphia, and he will be happy to assist their introduction. He had seen large plantations of Eucalyptus between St. Jose and San Francisco, and others growing in the interior. He had come to the conclusion in his own mind many years ago that the fragrance diffused through the Australian atmosphere by the essential oils of these trees must account in part for the remarkable immunity which settlers and travelers, however exposed at night in the bush, had always enjoyed against malarious fevers, although the climate was as hot as in malarious districts of Italy. No malaria was known, although low typhoid fevers were not unknown.

Mr. Davenport remarked the great difference between the vegetation of Adelaide and Philadelphia, and had been much impressed by the exuberant foliage of the Park around the Centennial grounds.

Prof. Houston reported the result of his proposed experiment with the 19" Fresnel lens through which, about two weeks ago, he had concentrated the beams of a full moon in a spot of about a quarter of an inch diameter, on the flags of a Crooke's radiometer, without obtaining the least movement; whereas the same instrument, at the same time, was moved by the heat of boiling water in a glass tube, but was not sensitive to radiant heat below about 212° . In a room, however, the heat of the hand would move it, a lighted match would make it move swiftly, even the dull red glow of the extinguished end of a match gave a sensible motion.

Pending nominations 793 and 803 were read.

And the meeting was adjourned.